



CLARENCETOWN WASTEWATER TREATMENT WORKS - ANNUAL POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 13250
 Date Obtained: 5 January 2016
 Date Published: 2 February 2016

QUALITY MONITORING

EPA Id. No. 1 Site Code 5CT0001		Site Description - Discharge to utilisation area			Annual Summary 1 January 2015 to 31 December 2015										
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Minimum	Maximum	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Number of measurements	3DGM Minimum	3DGM Maximum	100%ile Limit	100%ile Actual	Within Limits	
				Aluminium	milligrams per litre	Yearly	1	0.646	0.646	N/A	N/A	N/A	N/A	N/A	N/A
BOD	milligrams per litre	Weekly	52	<2	23	30	14	N/A	N/A	N/A	N/A	N/A	N/A	Yes **	
Cadmium	milligrams per litre	Yearly	1	<0.0002	<0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Chloride	milligrams per litre	Monthly	12	35	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Chlorophyll a	milligrams per litre	Weekly	52	<0.0010	0.3260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Chromium	milligrams per litre	Yearly	1	0.0012	0.0012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Conductivity	microsiemens per centimetre	Quarterly	4	376	546	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Copper	milligrams per litre	Yearly	1	0.0042	0.0042	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Faecal Coliforms	colony forming units per 100 mL	Monthly	12	9	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Iron	milligrams per litre	Yearly	1	0.555	0.555	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Lead	milligrams per litre	Yearly	1	0.0003	0.0003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Magnesium	milligrams per litre	Yearly	1	3.3	3.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Manganese	milligrams per litre	Yearly	1	0.0073	0.0073	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Mercury	milligrams per litre	Yearly	1	<0.0005	<0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Nitrate	milligrams per litre	Monthly	12	<0.05	3.90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Nitrogen (ammonia)	milligrams per litre	Monthly	12	0.09	4.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Oil and Grease	milligrams per litre	Monthly	12	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	10	<5	Yes **	
pH	pH	Weekly	52	7.4	9.8	6.5 - 8.5	7.5 - 8.4	N/A	N/A	N/A	N/A	N/A	N/A	Yes **	
Potassium	milligrams per litre	Monthly	12	8.2	12.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Nitrogen	milligrams per litre	Monthly	12	1.5	6.1	30	5.9	N/A	N/A	N/A	N/A	N/A	N/A	Yes **	
Total Phosphorous	milligrams per litre	Monthly	12	1.70	6.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Suspended Solids	milligrams per litre	Weekly	52	<1	67	40	23	N/A	N/A	N/A	N/A	N/A	N/A	Yes **	
Zinc	milligrams per litre	Yearly	1	<0.005	<0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

** Only samples that were taken when discharging to utilisation area have been included for compliance calculations.

EPA Id. No. 2 Site Code 5OV3100		Site Description - Overflow spillway			Annual Summary 1 January 2015 to 31 December 2015										
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Minimum	Maximum	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Number of measurements	3DGM Minimum	3DGM Maximum	100%ile Limit	100%ile Actual	Within Limits	
				BOD	milligrams per litre	Special Frequency 1	1	6	6	30	6	N/A	N/A	N/A	N/A
Chlorophyll a	milligrams per litre	Special Frequency 1	1	0.1100	0.1660	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Nitrate	milligrams per litre	Special Frequency 1	1	0.1	0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	1	0.59	0.59	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Oil and Grease	milligrams per litre	Special Frequency 1	1	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	10	<5	Yes	
pH	pH	Special Frequency 1	1	9.6	9.6	6.5 - 8.5	9.6 - 9.6	N/A	N/A	N/A	N/A	N/A	N/A	Yes*	
Total Nitrogen	milligrams per litre	Special Frequency 1	1	3.5	3.5	30	3.5	N/A	N/A	N/A	N/A	N/A	N/A	Yes	
Total Phosphorous	milligrams per litre	Special Frequency 1	1	1.9	1.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Suspended Solids	milligrams per litre	Special Frequency 1	1	22	22	40	22	N/A	N/A	N/A	N/A	N/A	N/A	Yes	

*The licensee is not taken to have exceeded a quality limit specified in this licence for pH, BOD or TSS if the licensee shows that the level of chlorophyll-a in the maturation or effluent storage pond. This demonstration will occur if the level of chlorophyll-a at Points 1 or 5 during any exceedance was 100 ug/L or more.

EPA Id. No. 5 Site Code 5CT0035		Site Description - Pumped discharge to Wallaroo Creek			Annual Summary 1 January 2015 to 31 December 2015										
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Minimum	Maximum	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Number of measurements	3DGM Minimum	3DGM Maximum	100%ile Limit	100%ile Actual	Within Limits	
				BOD	milligrams per litre	Special Frequency 1	1	8	8	30	8	N/A	N/A	N/A	N/A
Chlorophyll a	milligrams per litre	Special Frequency 1	1	0.1660	0.1660	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Nitrate	milligrams per litre	Special Frequency 1	1	0.15	0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	1	0.39	0.39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Oil and Grease	milligrams per litre	Special Frequency 1	1	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	10	<5	Yes	
pH	pH	Special Frequency 1	1	9.6	9.6	6.5 - 8.5	9.6 - 9.6	N/A	N/A	N/A	N/A	N/A	N/A	Yes*	
Total Nitrogen	milligrams per litre	Special Frequency 1	1	3.6	3.6	30	3.6	N/A	N/A	N/A	N/A	N/A	N/A	Yes	
Total Phosphorous	milligrams per litre	Special Frequency 1	1	1.9	1.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Suspended Solids	milligrams per litre	Special Frequency 1	1	22	22	40	22	N/A	N/A	N/A	N/A	N/A	N/A	Yes	

*The licensee is not taken to have exceeded a quality limit specified in this licence for pH, BOD or TSS if the licensee shows that the level of chlorophyll-a in the maturation or effluent storage pond. This demonstration will occur if the level of chlorophyll-a at Points 1 or 5 during any exceedance was 100 ug/L or more.

EPA Id. No. 2 Site Code 5OV3100		Site Description - Overflow spillway						
Pollutant	Unit of Measurement	Value Category	Original Data	Corrected Data	Date Corrected	Date Originally Published	Reason	
Chlorophyll a	milligrams per litre	Minimum	110	0.1100	31/01/2016	21/01/2016	Date Entry Error	
Chlorophyll a	milligrams per litre	Maximum	110	0.1100	31/01/2016	21/01/2016	Date Entry Error	

EPA Id. No. 5 Site Code		Site Description - Pumped discharge to Wallaroo Creek						
Pollutant	Unit of Measurement	Value Category	Original Data	Corrected Data	Date Corrected	Date Originally Published	Reason	
Chlorophyll a	milligrams per litre	Minimum	166	0.1660	31/01/2016	21/01/2016	Date Entry Error	
Chlorophyll a	milligrams per litre	Maximum	166	0.1660	31/01/2016	21/01/2016	Date Entry Error	